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LIST OF INFORMATION DISCLOSED BY APPLICANT

ATFT DOCKET NO. 16319-0052	SERIAL NO. 09/911,088	FILING DATE July 23, 2001
APPLICANT David Ow		GROUP 1645

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS
John	6,175,058	1-16-01	Baszczynski et al.	800	278
	6,187,994	2-13-01	Baszczynski et al.	800	278
	6,262,341	7-17-01	Baszczynski et al.	800	278
	5,190,871	3-2-93	Cox et al.	435	172.3
	5,527,695	6-18-96	Hodges et al.	435	172.3
	5,744,336	4-28-98	Hodges et al.	435	172.3
	5,910,415	6-8-99	Hodges et al.	435	6
	6,110,736	8-29-00	Hodges et al.	435	320.1
	6,114,600	9-5-00	Ow et al.	800	278

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	NAME	TRANSLATION YES NO.
PCT/US00/19983	7-21-00	USA	Ow et al.	X
PCT/US99/18987	8-19-99	USA	Calos	X
PCT/US00/09154	4-6-00	USA	Sauer et al.	X

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

	Albert <i>et al.</i> , Site-specific integration of DNA into wild-type and mutant <i>lox</i> sites placed in the plant genome, 1995 Plant J., 7:649-59.
	Alonso <i>et al.</i> , The <i>Bacillus subtilis</i> Histone-like Protein Hbsu Is Required for DNA Resolution and DNA Inversion Mediated by the β Recombinase of Plasmid pSM19035, 1995 J. Biol. Chem., 270:2938-45.
	Araki, H. <i>et al.</i> , Site-specific Recombinase, R, Encoded by Yeast Plasmid pSR1, 1992 J. Mol. Biol., 225(1):25-37.
	Araki, K. <i>et al.</i> , Targeted integration of DNA using mutant <i>lox</i> sites in embryonic stem cells, 1997 Nucleic Acids Res., 25:868-72.
John	Argos <i>et al.</i> , The integrase family of site-specific recombinases: regional similarities and global diversity, 1986 The EMBO J., 5:433-40.

DEC 04 2001

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2

<p>Patent & Trademark Office</p> <p>2001</p> <p>gh</p>	<p>Bannam <i>et al.</i>, Molecular genetics of the chloramphenicol-resistance transposon Tn4451 from <i>Clostridium perfringens</i>: the TnpX site-specific recombinase excises a circular transposon molecule, 1995 Mol. Microbiology, 16:535-51.</p> <p>Battacharyya <i>et al.</i>, Reduced variation in transgene expression from a binary vector with selectable markers at the right and left T-DNA borders, 1994 Plant J., 6:957-68.</p> <p>Baubonis and Sauer, Genomic targeting with purified Cre recombinase, 1993 Nucl. Acids Res., 21:2025-29.</p> <p>Bayley <i>et al.</i>, Exchange of gene activity in transgenic plants catalyzed by the Cre-lox site-specific recombination system, 1992 Plant Mol. Biol., 18:353-61.</p> <p>Bethke and Sauer, Segmental genomic replacement by Cre-mediated recombination: genotoxic stress activation of the p53 promoter in single-copy transformants, 1997 Nucleic Acids Res., 25: 2828-34.</p> <p>Carrasco <i>et al.</i>, <i>Anabaena xisF</i> gene encodes a developmentally regulated site-specific recombinase, 1994 GENES & DEVELOPMENT, 8:74-83.</p> <p>Choi <i>et al.</i>, A new approach for the identification and cloning of genes: the pBACwch system using Cre/lox site-specific recombination, 2000 Nucl. Acids Res., 28:e19(i-vii).</p> <p>Corneille <i>et al.</i>, Efficient elimination of selectable marker genes from the plastid genome by the CRE-lox site-specific recombination system, 2001 The Plant J., 27:171-78.</p> <p>Crellin and Rood, The Resolvase/Invertase Domain of the Site-Specific Recombinase TnpX Is Functional and Recognizes a Target Sequence That Resembles the Junction of the Circular Form of the <i>Clostridium perfringens</i> Transposon Tn4451, 1997 J. of Bacteriology, 179:5148-56.</p> <p>Crisona, N.J. <i>et al.</i>, Processive Recombination by Wild-type Gin and an Enhancer-independent Mutant, 1994 J. Mol. Biol., 243(3):437-57.</p> <p>Dale and Ow, Gene transfer with subsequent removal of the selection gene from the host genome, 1991 Proc. Natl. Acad. Sci., 88:10558-62.</p> <p>Dale and Ow, Intra- and intermolecular site-specific recombination in plant cells mediated by bacteriophage P1 recombinase, 1990 Gene 91:79-85.</p> <p>Davies <i>et al.</i>, Somatic and germinal inheritance of an FLP-mediated deletion in transgenic tobacco, 1999 J. of Experimental Botany, 50:1447-56.</p> <p>Day <i>et al.</i>, Transgene integration into the same chromosome location can produce alleles that express at a predictable level, or alleles that are differentially silenced, 2000 GENES & DEVELOPMENT, 14:2869-80.</p> <p>De Buck <i>et al.</i>, Transgene silencing of invertedly repeated transgenes is released upon deletion of one of the transgenes involved, 2001 Plant Mol. Biol., 46:433-45.</p> <p>Diaz <i>et al.</i>, The Prokaryotic β-Recombinase Catalyzes Site-specific Recombination in Mammalian Cells, 1999 J. Biol. Chem., 274:6634-6640.</p> <p>Diaz <i>et al.</i>, New Insights into Host Factor Requirements for Prokaryotic β-Recombinase-mediated Reactions in Mammalian Cells, 2001 J. Biol. Chem., 276:16257-64.</p> <p>Feng <i>et al.</i>, Site-specific Chromosomal Integration in Mammalian Cells: Highly Efficient CRE Recombinase-mediated Cassette Exchange, 1999 J. Mol. Biol., 292:779-85.</p> <p>Finkel and Johnson, The Fis protein: it's not just for DNA inversion anymore, 1992 Mol. Microbiology, 6:3257-65.</p> <p>Friedman, Integration Host Factor: A Protein for All Reasons, 1988 Cell, 55:545-54.</p> <p>Gleave <i>et al.</i>, Selectable marker-free transgenic plants without sexual crossing: transient expression of cre recombinase and use of a conditional lethal dominant gene, 1999 Plant Mol. Biol., 40:223-35.</p> <p>Groth <i>et al.</i>, A phage integrase directs efficient site-specific integration in human cells, 2000 PNAS, 97:5995-6000.</p> <p>Hajdukiewicz <i>et al.</i>, Multiple pathways for Cre/lox-mediated recombination in plastids, 2001 The Plant J., 27:161-170.</p> <p>Hatfull and Grindley, Resolvases and DNA-Invertases: a Family of Enzymes Active in Site-Specific Recombination, 1988 Genetic Recombination, 11:357-96.</p> <p>Hohn <i>et al.</i>, Elimination of selection markers from transgenic plants, 2001 Current Opinion in Biotechnology, 12:139-43.</p> <p>Howe <i>et al.</i>, Cis-Effects of Heterochromatin and Euchromatic Gene Activity in <i>Drosophila melanogaster</i>, 1995 Genetics, 140:1033-45.</p> <p>Iyer <i>et al.</i>, Transgene silencing in monocots, 2000 Plant Mol. Biol., 43:323-46.</p> <p>Kaeppler <i>et al.</i>, Epigenetic aspects of somaclonal variation in plants, 2000 Plant Mol. Biol., 43:179-88.</p> <p>Kilby <i>et al.</i>, Controlled induction of GUS marked clonal sectors in <i>Arabidopsis</i>, 2000 J. of Experimental Botany, 51:853-63.</p>
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DEC 04 2001
TECH CENTER 1600/2900 3

Kolb and Siddell, Genomic targeting of a bicistronic DNA fragment by Cre-mediated site-specific recombination, 1997, GENE, 203:209-16.
Kolot <i>et al.</i> , Site-specific recombination in mammalian cells expressing the Int Recombinase of bacteriophage HK022, 1999 Mol. Biol. Reports, 26:207-13.
Kuhstoss and Rao, Analysis of the Integration Function of the Streptomyces Bacteriophage Φ C31, 1991 J. Mol. Biol., 222:897-908.
Kutsukake K. <i>et al.</i> , A gene for DNA invertase and an invertible DNA in <i>Escherichia coli</i> K-12, 1985 Gene, 34(2-3):343-50.
Landy, Dynamic, Structural, and Regulatory Aspects of λ Site-Specific Recombination, 1989 Annu. Rev. Biochem., 58:913-49.
Loessner <i>et al.</i> , Complete nucleotide sequence, molecular analysis and genome structure of bacteriophage A118 of <i>Listeria monocytogenes</i> : implications for phage evolution, 2000 Mol. Microbiology, 35:324-40.
Loonstra <i>et al.</i> , Growth inhibition and DNA damage induced by Cre recombinase in mammalian cells, 2001 PNAS, 98:9209-14.
Lorbach <i>et al.</i> Site-specific Recombination in Human Cells Catalyzed by Phage λ Integrase Mutants, 2000 J. Mol. Biol., 296:1175-81.
Lyznik, L.A. <i>et al.</i> , FLP-mediated recombination of <i>FRT</i> sites in the maize genome, 1996 Nucleic Acids Res., 24(19):3784-9.
Lyznik, L.A. <i>et al.</i> , Activity of yeast FLP recombinase in maize and rice protoplasts, 1993 Nucleic Acids Res., 21:969-75.
Maeser and Kahmann, The Gin recombinase of phage Mu can catalyze site-specific recombination in plant protoplasts, 1991 Mol. Gen. Genet., 230:170-76.
Matsuura <i>et al.</i> , The <i>sre</i> Gene (ORF469) Encodes a Site-Specific Recombinase Responsible for Integration of the R4 Phage Genome, 1996 J. of Bacteriology, 178:3374-76.
Matzke <i>et al.</i> , Transgene silencing by the host genome defense: implications for the evolution of epigenetic control mechanisms in plants and vertebrates, 2000 Plant Mol. Biol., 43:401-15.
Medberry <i>et al.</i> , Intra-chromosomal rearrangements generated by Cre-lox site-specific recombination, 1995 Nucleic Acids Res., 23:485-90.
Meyer, Transcriptional transgene silencing and chromatin components, 2000 Plant Mol. Biol., 43:221-34.
Muskens <i>et al.</i> , Role of inverted DNA repeats in transcriptional and post-transcriptional gene silencing, 2000 Plant Mol. Biol., 43:243-60.
O'Gorman <i>et al.</i> , Recombinase-Mediated Gene Activation and Site-Specific Integration in Mammalian Cells, 1991 Science, 251:1351-55.
Onouchi <i>et al.</i> , Visualization of site-specific recombination catalyzed by a recombinase from <i>Zygosaccharomyces rouxii</i> in <i>Arabidopsis thaliana</i> , 1995 Mol. Gen. Genet. 247:653-660.
Ow, The right chemistry for marker gene removal?, 2001 NATURE BIOTECHNOLOGY, 19:115-6.
Ow, Recombinase-directed chromosome engineering in plants, 1996 Current Opinion in Biotechnology, 7:181-86.
Ow and Ausubel, Conditionally Replicating Plasmid Vectors That Can Integrate into the <i>Klebsiella pneumoniae</i> Chromosome via Bacteriophage P4 Site-Specific Recombination, 1983 J. of Bacteriology, 155:704-13.
Ow and Medberry, Genome Manipulation Through Site-Specific Recombination, 1995 Crit. Rev. Plant Sci., 14:239-261.
Peschke and Phillips, Genetic Implications of Somaclonal Variation in Plants, 1992 Advances in Genetics, 30:41-75.
Qin <i>et al.</i> , Cre recombinase-mediated site specific recombination between plant chromosomes, 1994 Proc. Natl. Acad. Sci., 91:1706-10.
Qin <i>et al.</i> , Site-specific cleavage of chromosomes <i>in vitro</i> through Cre-lox recombination, 1995 Nucleic Acids Res., 23:1923-7.
Sadowski, Site-Specific Recombinases: Changing Partners and Doing the Twist, 1986 J. of Bacteriology, 165:341-7.
Sadowski, Site-specific recombination : hops, flips, and flops, 1993 FASEB J., 7:760-67.
Sato <i>et al.</i> , The <i>cisA</i> Cistron of <i>Bacillus subtilis</i> Sporulation Gene <i>spoIVC</i> Encodes a Protein Homologous to a Site-Specific Recombinase, 1990 J. of Bacteriology, 172:1092-8.
Sauer, Site-specific recombination: developments and applications, 1994 Current Opinion in Biotechnology, 5:521-7.

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DEC 04 2001

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4



	Schmidt <i>et al.</i> , Illegitimate Cre-dependent chromosome rearrangements in transgenic mouse spermatids, 2000 PNAS, 97:13702-7.
	Schwikardi and Dorge, Site-specific recombination in mammalian cells catalyzed by $\lambda\delta$ resolvase mutants: implications for the topology of episomal DNA, 2000 FEBS Let., 471:147-150
	Seibler and Bode, Double-Reciprocal Crossover Mediated by FLP-Recombinase: A Concept and an Assay, 1997 Biochem., 36:1740-7.
	Seibler <i>et al.</i> , DNA Cassette Exchange in ES Cells Mediated by FLP Recombinase: An Efficient Strategy for Repeated Modification of Tagged Loci by Marker-Free Constructs, 1998 Biochemistry, 37:6229-34.
	Srivastava <i>et al.</i> , Single-copy transgenic wheat generated through the resolution of complex integration patterns, 1999 Proc. Natl. Acad. Sci. USA, 96:11117-11121.
	Srivastava and Ow, Single-copy primary transformants of maize obtained through the co-introduction of a recombinase-expressing construct, 2001 Plant Mol. Biol., 46:561-566.
	Stark <i>et al.</i> , Catalysis by site-specific recombinases, 1992 TIG, 8:432-9.
	Stavenhagen and Zakian, Internal tracts of telomeric DNA act as silencers in <i>Saccharomyces cerevisiae</i> , 1994 Genes and Dev., 8:1411-22.
	Stragier <i>et al.</i> , Chromosomal Rearrangement Generating a Composite Gene for a Developmental Transcription Factor, 1989 Science, 243:507-512.
	Thomason <i>et al.</i> , Gene insertion and replacement in <i>Schizosaccharomyces pombe</i> mediated by the <i>Streptomyces</i> bacteriophage Φ C31 site-specific recombination system, 2001 Mol. Genet. Genomics, 265:1031-8.
	Thorpe & Smith, <i>In vitro</i> site-specific integration of bacteriophage DNA catalyzed by a recombinase of the resolvase/invertase family, 1998 Proc. Nat'l. Acad. Sci. USA, 95:5505-10.
	Thyagarajan <i>et al.</i> , Site-Specific Genomic Integration in Mammalian Cells Mediated by Phage Φ C31 Integrase, 2001 Mol. and Cell. Biol. 21:3926-34.
	Thyagarajan <i>et al.</i> , Mammalian genomes contain active recombinase recognition sites, 2000 GENE, 244:47-54.
	Tominaga A <i>et al.</i> , Site-Specific Recombinase Genes in Three <i>Shigella</i> Subgroups and Nucleotide Sequences of a <i>pinB</i> Gene and an Invertible B Segment from <i>Shigella boydii</i> , 1991 J. Bacteriol., 173(13):4079-87.
	Vergunst <i>et al.</i> , Cre/lox-mediated recombination in <i>Arabidopsis</i> : evidence for transmission of a translocation and a deletion event, 2000 Chromosoma, 109:287-97.
	Vergunst and Hooykaas, Cre/lox-mediated site-specific integration of <i>Agrobacterium</i> T-DNA in <i>Arabidopsis thaliana</i> by transient expression of cre, 1998 Plant Mol. Biol., 38:393-406.
	Vergunst <i>et al.</i> , VirB/D4-Dependent Protein Translocation from <i>Agrobacterium</i> into Plant Cells, 2000 Science, 290:979-82.
	Vergunst <i>et al.</i> , Site-specific integration of <i>Agrobacterium</i> T-DNA in <i>Arabidopsis thaliana</i> mediated by Cre recombinase, 1998 Nucleic Acids Res., 26:2729-34.
	Voziyanov <i>et al.</i> , A general model for site-specific recombination by the integrase family recombinases, 1999 Nucleic Acids Res., 27:930-41.
	Wallrath and Elgin, Position effect variegation in <i>Drosophila</i> is associated with an altered chromatin structure, 1995 Genes and Dev., 9:1263-77.
	Weisberg and Landy, Site-specific Recombination in Phage Lambda, 1983 LAMBDA II, Cold Spring Harbor Laboratory 211-50.
	Zuo <i>et al.</i> , Chemical-regulated, site-specific DNA excision in transgenic plants, 2001 Nature Biotechnology, 19:157-61.

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